		T.A. 154/->	
	Application No.	Applicant(s)	
No. 4' a a a 6 A Harris La 11'4	10/665,657	HOSHI ET AL.	
Notice of Allowability	Examiner	Art Unit	-
	Delma R. Flores Ruiz	2828	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	oplication. If not included n will be mailed in due c	d ourse. THIS
1. This communication is responsive to <u>9/18/2003</u> .			
2. The allowed claim(s) is/are <u>5-8</u> .			
3. The drawings filed on 18 September 2003 are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority unappriority and a	been received. been received in Application No		on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. No AL MATERIAL.	ote the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/20/03; 5/4/04 5/10/0 4 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 8), 7. Examiner's Amendi 8. Examiner's Statemen	(PTO-413), te ment/Comment	
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Application/Control Number: 10/665,657 Page 2

Art Unit: 2828

DETAILED ACTION

Allowable Subject Matter

Claims 5 – 8 are allowed.

The following is an examiner's statement of reasons for allowance: Claim 5 recites a method for fabricating a semiconductor laser device structure including the specific structure limitation of "forming an insulating film on the entire surface of the substrate including the wall plane of a pit-like recess penetrating the current blocking layer and extending toward the compound semiconductor substrate, forming a photoresist film on the entire surface of the substrate, pattering the photoresist film to form a resist mask on the insulating film as well as to fill the pit-like recess with the photoresist film" which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

The following is an examiner's statement of reasons for allowance: Claim 6 recites a method for fabricating a semiconductor laser device structure including the specific structure limitation of "etching the contact layer and the upper cladding layer to from a mesa-structure portion having a ridge stripe pattern and forming

Application/Control Number: 10/665,657

Art Unit: 2828

an insulating film on the entire surface of the substrate including the wall plane of a pit-like recess penetrating the current blocking layer and extending toward the compound semiconductor substrate, and then removing the insulating film from an area other than the wall plane of the pit-like recess" which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

The following is an examiner's statement of reasons for allowance: Claim 7 recites a method for fabricating a semiconductor laser device structure including the specific structure limitation of "etching the contact layer and the upper cladding layer to from a mesa-structured portion having a ridge stripe pattern, and selectively growing, using an insulating film mask, a current blocking layer with a low carrier density thereby to bury the both sides of the mesa-structured portion and a pit-like recess extending towards the compound semiconductor substrate, and the removing the insulating film mask to exposed the contact layer" which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

The following is an examiner's statement of reasons for allowance: Claim 8 recites a method for fabricating a semiconductor laser device structure including the specific structure limitation of "selectively growing, using an insulating film mask, a

Application/Control Number: 10/665,657

Art Unit: 2828

current blocking thereby to bury the both sides of the mesa-structured portion and removing the insulating film mask to exposed the contact layer and forming a resist pattern on the contact layer, and performing ion implantation to the entire surface of the substrate thereby to convert the outermost surface of the wall plane of the pit-like recess penetrating the current blocking layer and extending toward the compound semiconductor substrate into layer with a higher resistivity" which is neither anticipated or disclosed nor suggested in any piece of available prior art, which is neither anticipated nor obvious over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Sun Harvey can be reached on (571) -272-1835. The fax phone

Application/Control Number: 10/665,657

Art Unit: 2828

number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Delma R. Flores Ruiz

Examiner Art Unit 2828 Min Sun Harvey Supervisor Patent Examiner Art Unit 2828

DRFR/MH

February 17, 2005